

# A Level Computer Science

## Exam Style Questions

### ***Unit 1.3.4***

### ***Web Technologies***

*Part 1: HTML & CSS*

Name		Date	
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Score	Percentage	Grade
/ 27		

## Question 1

The Big Brains exam board has produced a website that allows students to access revision videos. All pages in the site contain the following tag in the head section.

```
<link href="themes/standard.css" rel="stylesheet" type="text/css">
```

Describe **one** advantage of storing the CSS in an external file rather than it being embedded within HTML files.

[3]

## Question 2

A website has the following HTML code.

```
<html>
  <head>
    <title>My Stamp Collection - European Stamps</title>
  </head>
  <body>
    <h1 style="font-family:Arial; color:darkGreen">United Kingdom</h1>
    <p>These are my stamps from the UK.</p>

    <!-- Code A -->
    <!-- Code B -->

  </body>
</html>
```

the site's owner wants to add the photo UKstamps.jpg in place of the comment  
<!-- Code A -->

a) Write the code that should go in place of the comment <!-- Code A -->

[2]

b) Where the comment <!-- Code B --> is, the site's owner wants to add the text:

Find out more about UK stamps

as a link to the UK Stamp Collectors Guild website which has the URL:

<http://ukstampcollectorguild.co.uk>

Write the code that should go in place of the comment <!-- Code B -->

[2]

c) The site uses styling set out as attributes in tags rather than a linked CSS file.

i. Give **one** disadvantage of this to the site's owner.

[1]

ii. Give **one** disadvantage of this to the site's visitors.

[1]

d) The site needs a light green (web colour lightGreen) background.

Explain what change needs to be made to the current page in order to do this.

[3]

## Question 3

A website has the following code:

```
<p>
<form action="checkUser.php">
    Username:<br>
    <input type="text" name="username">
    <br>
    Password:<br>
    <input type="password" name="password">
    <br><br>
    <input type="submit" value="submit">
</form>

<p id="warning">Unauthorised access to this system will be prosecuted</p>
```

The page is linked to a style sheet. The message Unauthorised access to this system will be prosecuted is red with a monospace font. (Note this is the only text on the page that has this formatting)

a) Write the segment of CSS code that would appear on the style sheet to make the message appear in the way described.

[3]

b) Explain the meaning of the HTML line `<input type="text" name="username">`

[2]

## Question 4

A website contains the following HTML:

```
<html>
  <head>
    <title>Boris' Cake Shop</title>
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body>
    <h1>Boris' Cake Shop</h1>
    <p id="intro">
      Welcome to Boris' Cake Shop.
      <script>
        var hour = new Date().getHours{}; // gets hour value of current time
        if (hour > 9 && hour < 17)
        {
          document.write("We are currently open.");
        }
        else
        {
          document.write("We are closed, visit us between 9 and 5");
        }
      </script>
    </p>
    <div class="customerQuote">
      Boris makes the best cupcakes I have ever tasted.
    </div>
  </body>
</html>
```

a) Explain the difference between a HTML id attribute and a HTML class attribute.

[2]

b) The html file is linked to the CSS file style.css

Text between h1 tags should be in the font Arial.

The customer quote should be on a background with the colour E8C3E1.

The introduction text should be dark red (using the named colour darkRed).

Write the code that should go in style.css to give this formatting.

[6]

c) Some users have reported that there is a bug and the site says the shop is closed when they log on between 9 and 10 in the morning.

Explain how this bug can be fixed.

[1]

d) Give one disadvantage of this code being run client side rather than server side.

[1]